Table 1 - Metal Loads from Selected Adits in the Upper Animas Basin High Flow (Pounds per day) Low Flow

		Hi	gh Flo	low (Pounds per day)			ay)	Low	Flow					
Mine	%Removal	\$ 1000's	Al	Cd	Cu	Fe	Mn	Zn	Al	Cd	Cu	Fe	Mn	Zn
Cement Creek														
Gold King 7 level			<u>98.7</u>	<u>.186</u>	<u>17.6</u>	<u> 360</u>	<u>73.9</u>	<u>71.3</u>	<u>60.1</u>	<u>.162</u>	<u>15.4</u>	<u>224</u>	<u>86.1</u>	<u>60.3</u>
<u>Red &amp; Bonita</u>			<u>13.3</u>	<u>.13</u>	<u>.081</u>	<u>318</u>	<u>118</u>	<u>56.6</u>	<u>13.5</u>	<u>.136</u>	<u>.021</u>	<u>356</u>	<u>129</u>	<u>61.9</u>
<u>American Tunnel</u>			<u>8.6</u>	<u>.004</u>	<u>.011</u>	<u>215</u>	<u>74.8</u>	<u>29.2</u>	<u>7.0</u>	<u>.003</u>	<u>.008</u>	<u> 192</u>	<u>66.0</u>	<u> 26.3</u>
<u>Mogul (2009)</u>			<u>3.1</u>	<u>.05</u>	<u>.04</u>	<u>32.0</u>	<u>27.2</u>	<u>29.1</u>	<u>2.0</u>	<u>.034</u>	<u>.017</u>	<u>21.0</u>	<u>19.1</u>	<u>21.1</u>
Mogul	80%	1000	1	0.04	1.7	14	4	2	1	0.02	0.7	5	1	3
Silver Ledge	50%	300	25	0.09	0.6	222	33	15	4	0.03	0.0	56	11	3
Grand Mogul	0%	60	15	0.15	5.3	33	10	27	1	0.01	0.2	0	0	1
Mammoth	30%	60	1	0.00	0.0	14	2	8	1	0.00	0.0	16	2	0
Anglo-Saxon	30%	60	0	0.00	0.0	15	10	2	0	0.01	0.0	15	5	1
Joe & Johns	30%	300	0	0.00	0.2	1	1	1	0	0.00	0.0	1	0	0
Big Colorado	50%	300	1	0.00	0.0	3	3	0	1	0.00	0.0	6	0	0
Porcupine	30%	60	0	0.00	0.0	14	5	1	0	0.00	0.0	10	5	1
Evelyn	50%	1000	1	0.00	0.0	2	0	0	2	0.00	0.0	3	O	0
Lewis property	50%	60	0	0.01	0.4	2	0	1	0	0.01	0.4	2	0	1
<b>Total Cement Creek</b>			44	0.29	8.3	320	68	57	10	0.07	1.3	113	25	12
Mineral Creek														
Koehler (2005)			13.4	.1	5.8	63	14.6	37.9	7.1	.1	2.5	51	4.2	15.4
Koehler	50%	60	33	0.36	30.7	321	10	91	28	0.25	28.3	264	8	78
North Star	50%	300	0	0.02	0.1	6	16	4	1	0.02	0.2	6	11	3
Junction Mine	50%	300	13	0.07	2.2	126	3	14	0	0.00	0.1	3	0	0
Bandora Mine	30%	60	0	0.04	0.1	5	4	10	0	0.02	0.0	2	2	4
Upper Bonner	50%	300	1	0.00	0.0	1	1	1	2	0.01	0.0	2	1	1
Ferrocrete Mine	50%	300	2	0.00	0.0	31	5	1	3	0.01	0.0	32	7	1
Paradise	0%	60	28	0.00	0.1	246	20	2	28	0.00	0.1	246	20	2
Brooklyn Mine	30%	300	1	0.01	0.2	8	2	2	1	0.01	0.2	8	2	2
Bonner Mine	50%	300	1	0.01	0.0	1	1	1	2	0.00	0.0	2	1	0
Lower Bonner	30%	300	1	0.00	0.0	1	0	0	2	0.00	0.0	2	1	1
Little Dora	50%	300	1	0.33	0.9	5	653	48	0	0.00	0.0	0	2	0
<b>Total Mineral Creek</b>			81	0.85	34.3	751	715	175	65	0.31	28.9	566	54	93
Animas above Eureka														
Vermillion Mine	50%	300	0	0.04	0.2	2	1	9	0	0.01	0.1	1	0	3
Columbus	50%	300	1	0.01	0.3	3	0	9	0	0.02	0.1	1	0	4
Lower Comet	0%	10	2	0.00	0.1	2	2	1	2	0.00	0.0	1	1	1
N side of Calif. Mtn.	30%	60	4	0.01	0.0	1	5	2	4	0.01	0.0	1	5	2
Sound Democrate	50%	60	0	0.00	0.1	0	4	1	0	0.00	0.0	0	2	0
Mountain Queen	50%	300	0	0.00	0.2	1	0	1	0	0.00	0.1	0	0	0
Silver Wing	30%	0	0	0.00	0.1	0	0	0	0	0.00	0.3	1	1	1
Bagley	30%	300	0	0.01	0.0	0	13	7	0	0.01	0.0	0	6	3
Senator	30%	300	0	0.00	0.0	21	7	0	1	0.00	0.0	23	14	2
<b>Total Animas above Eurek</b>	(a		8	0.08	1.0	30	33	29	8	0.06	0.7	29	29	15
Animas below Eureka														
Royal Tiger	50%	300	5	0.04	0.8	0	3	7	0	0.00	0.1	0	0	0
Pride of the West	30%	60	0	0.01	0.0	0	0	3	0	0.01	0.0	0	0	2
Little Nation	30%	300	0	0.00	0.0	9	2	1	0	0.00	0.0	4	1	0
<b>Grand Total Pre-2001</b>			138	1.29	44.5	1110	822	271	83	0.45	31.0	712	109	124
														$\overline{}$

Total CC Increase (2009)	123	.33	16.0	911	290	184	81.6	.315	14.8	788	299	167
Sum of Two Lines Above	261	1.62	60.5	2021	1112	455	165	.765	45.8	1500	408	391

Table 2 - Metal loads from Selected Mine Waste Sites in the Upper Animas Basin

				Load in pounds per year							
Site Name	Acres	% Reduction	Cost \$1000	Al	Cd	Cu	Fe	Mn	Zn		
Cement Creek											
Galena Queen	1.09	90	300	154	36.8	832	6,895	0.0	6137		
Kansas City #2	0.46	40	60	159	7.1	39	3,979	0.0	1172		
Hercules	1.26	90	300	163	30.6	168	6,712	0.0	4711		
Upper Joe & Johns	0.02	40	300	2	0.1	2	19	0.0	23		
Grand Mogul - East	0.53	35	300	47	2.0	29	745	0.0	385		
Kansas City #1	0.48	40	60	82	1.2	19	1,618	0.2	282		
Black Hawk	0.20	50	60	82	0.5	6	124	0.1	108		
Lead Carbonate	0.62	55	300	120	0.8	27	1,228	0.0	179		
Henrietta 3	0.86	20	60	217	0.7	107	4,972	0.0	113		
Ross Basin	0.15	10	60	9	0.3	18	234	0.0	49		
Lark	0.66	90	60	18	0.8	40	886	0.0	168		
Pride of the Rockies	0.05	45	60	7	0.1	0	383	0.1	7		
Henrietta # 7	1.19	40	300	101	0.8	25	1,685	0.0	159		
Mogul	1.16	35	300	51	1.2	32	942	0.0	261		
Cement Creek Total	8.72			1,210	83.1	1,343	30,421	0.5	13,754		
Mineral Creek						-,	,				
Brooklyn	0.25	90	300	58	0.8	8	993	117	118		
Bullion King: Lower	0.86	90	300	641	6.0	14	9,945	190	629		
Upper Browns Trench	0.11	40	10	27	0.1	8	198	3	9		
Congress Shaft	0.35	40	60	11	0.2	16	109	11	20		
San Antonio	.33	40	60	211	4	139	3826	13	532		
Brooklyn Upper	2.57	20	<del></del>	661	3.1	38	9,909	176	163		
Upper Browns	0.51	90	60	82	0.3	5	1,610	6	25		
Little Dora	1.39	30	300	94	0.4	43	452	471	66		
Brooklyn Lower	0.86	20	60	110	0.6	9	672	122	105		
Mineral Creek Total	7.23	******		1,895	15.5	281	27,714	1,108	1,667		
Animas above Eureka											
Ben Butler	0.34	40	300	28	0.8	8	225	1	165		
Silver Wing	1.21	50	60	98	1.0	123	393	172	131		
Tom Moore	0.19	90	60	15	0.3	1	8	43	73		
Eagle	0.07	90	60	1	0.1	1	0	7	18		
Lucky Jack	0.70	90	60	16	0.6	3	14	32	95		
Animas above Eureka Total	3	10000000000		157	2.8	136	639	256	482		
Animas below Eureka											
Clipper	0.09	90	60	6	0.2	7	80	57	70		
Buffalo Boy	0.38	90	60	17	0.8	24	13	73	141		
Ben Franklin	0.37	90	60	81	0.4	13	612	99	95		
Caledonia	0.57	30	60	23	1.0	15	1	50	255		
Sunnyside	2.50	90	1,000	40	2.3	10	0	536	664		
Animas below Eureka Total	4			168	4.6	69	706	815	1,224		
GRAND TOTAL	22			3,219	102	1,691	55,655	2,167	16,595		